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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/394,222	09/13/1999	WILLIAM J. DALLY	259709	3910
7	01/08/2004	•	EXAMINER	
ROBERT J. CRAWFORD CRAWFORD MAUNU PLLC			LANE, JOHN A	
	LAND DRIVE, SUITE 390		ART UNIT PAPER NUMBER	
ST. PAUL, M	N 55120		2188	14
			DATE MAILED: 01/08/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

X

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	Application No.	Applicant(s)	0
Office Action Summers	09/394,222	DALLY, WILLIAM J.	
Office Action Summary	Examiner	Art Unit	
	Jack A Lane	2188	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with	n the correspondence address	,
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a r  - If NO period for reply is specified above, the maximum statutory peri  - Failure to reply within the set or extended period for reply will, by sta  - Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).  Status	N. 1.136(a). In no event, however, may a rejerely within the statutory minimum of thirty iod will apply and will expire SIX (6) MONT tute, cause the application to become ABA	oly be timely filed  (30) days will be considered timely.  HS from the mailing date of this communical NDONED (35 U.S.C. § 133).	tion.
1) Responsive to communication(s) filed on 10	0/15/03.		
, ·	nis action is non-final.		
Since this application is in condition for allow closed in accordance with the practice under the condition for allow closed.	wance except for formal matte		is
Disposition of Claims	,	,	
4)⊠ Claim(s) <u>1-31</u> is/are pending in the applicati	on		
4a) Of the above claim(s) is/are withd			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-31</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	d/or election requirement.		
Application Papers			
9) The specification is objected to by the Exam	iner.		
10) The drawing(s) filed on is/are: a) a	accepted or b) objected to b	y the Examiner.	
Applicant may not request that any objection to t	he drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corr	rection is required if the drawing(s	s) is objected to. See 37 CFR 1.12	1(d).
11) The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.	
Priority under 35 U.S.C. §§ 119 and 120			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:		119(a)-(d) or (f).	
<ul> <li>1. Certified copies of the priority docume</li> <li>2. Certified copies of the priority docume</li> <li>3. Copies of the certified copies of the papplication from the International Bure</li> <li>* See the attached detailed Office action for a least content.</li> </ul>	ents have been received in Ap riority documents have been r eau (PCT Rule 17.2(a)).	eceived in this National Stage	
<ul> <li>13) Acknowledgment is made of a claim for dome since a specific reference was included in the 37 CFR 1.78.</li> <li>a) ☐ The translation of the foreign language</li> </ul>	estic priority under 35 U.S.C. § first sentence of the specifica	119(e) (to a provisional application or in an Application Data S	
14) Acknowledgment is made of a claim for dome reference was included in the first sentence of	estic priority under 35 U.S.C. §	§ 120 and/or 121 since a spec	
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s	5) D Notice of Inf	immary (PTO-413) Paper No(s)ormal Patent Application (PTO-152)	.·

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## **DETAILED ACTION**

- 1. This Office action is responsive to the amendment filed 10/15/03. Claims 1-31 are presented for examination. Any objections or rejections made in the previous office action not specifically repeated below are withdrawn.
- 2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 3. Claims 1-31 are rejected under 35 U.S.C. § 102(e) as being clearly anticipated by Duluk, Jr. et al. (6,288,730).

The claimed "address buffer" corresponds to request queues 2621-0 and 2621-1 (fig. 13A). The claimed "memory array" corresponds to the RAM. The claimed "control circuit" corresponds to reorder logic 2623-0 and 2623-1 shown in figure 13B. The memory addresses/references stored in request queues 2621 are selected at any given cycle as claimed. Reorder logic reorder the addresses received from the request queues and presents the addresses to RAMBus memory controller 2649. The claim limitation

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"as they leave the control circuit" corresponds to the 24 line output from reorder address queue to memory controller 2649. The claimed "read buffer" corresponds to in order return queue 2624.

In the Remarks filed 09/13/99, with respect to the effective filing date of the Duluk, Jr. et al. Pat. No. 6,288,730, Applicant argues:

The Examiner confirmed that the above section 102(e) rejections was based on the '730 reference's filing date of August 20, 1999....Notwithstanding Applicant's belief that Provisional Application No. 60/097,336 (identified on the cover of the '730 reference) fails to correspond to cited subject matter of the '730 reference

In response, the examiner contends the effective filing data of the Duluk patent is based on the August 20, 1999 filing date and the U.S. Provisional Application (60/097,336) filing data of August 20, 1998 (see the claim for benefit in col. 1)

Applicant must provide support for his contention that Provisional Application fails to correspond to the cited subject matter of the '730 reference.

Applicant also argues:

Assuming for example, that "RAM" refers to texture memory 1213 of FIG. 2, then it would not be clear how to reconcile this assertion with *Duluk's* teaching at column 8, lines 58 et seq., that defines texture memory 1213 as logic that acts to either store texture maps or locates requested texture maps from other sources as shown at the bottom of FIG. 2.

and;

Duluk's teaching...defines use of texture memory 1213 as operative only in response to undisclosed missed request logic.

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In response, the examiner cannot find where on the indicted lines texture memory 1213 is characterized as "logic." Figure 5 clearly shows texture memory 1213 as a plurality of plural block memory devices. The examiner cannot find where texture memory 1213 is operative only in response to missed request logic. Memory devices disk 1224, AGP memory 1222 and frame buffer 21 are response to miss logic if data cannot be found in texture memory 1213.

- 4. Applicant's arguments filed 10/15/03 have been fully considered but they are not deemed to be persuasive.
- 5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).
- 6. A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

Any response to this final action should be mailed to:

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## **Box AF**

Under Secretary of Commerce for Intellectual Property and Director of the United States Patent and Trademark Office

PO Box 1450

Alexandria, VA 22313-1450

or faxed to:

(703) 872-9306, (for Official communications intended for entry)

Or:

(703) 872-9306, (for Non-Official or Draft communications, please label "Non-Official" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jack A. Lane whose telephone number is 703 305-3818. The examiner can normally be reached on Mon-Fri from 7:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mano Padmanabhan can be reached on 703 306-2903.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 305-3900.

PRIMARY EXAMINER